



2003 AFCEE Technology Transfer Workshop

San Antonio, Texas

Promoting Readiness through Environmental Stewardship

IMPLEMENTING THE AFCEE PE PROGRAM

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WHAT ARE PE SAMPLES?

- **“Single Blind” Performance Evaluation Samples**
 - **Laboratories know the sample is a PE Sample, however, they do not know the content or concentration!**

- **“Double Blind” Performance Evaluation Sample**
 - **Laboratories do not know it is a PE Sample and they do not know the concentration!!**



How to Use a PE Sample?

- **Preliminary Evaluation of AFCEE Laboratories**
 - **Single Blind PE Samples can test the proficiency of each analytical procedure in the laboratory.**
- **On-Going AFCEE Project Laboratory Evaluation**
 - **Double Blind PE Samples test the proficiency of a laboratory real time for each analytical method.**
- **PE Samples can be used for evaluation of Laboratory Electronic Data Systems**



PE Sample is a Tool for Data Quality

- **AFC EE Program Manager Monitors Project Labs Real Time**
 - **Any laboratory discrepancies or non-compliant analyses error are caught and corrected before the project is complete.**
- **Prime Contractors Project Managers can correct and manage laboratory data more effectively.**
- **Sub-contract laboratories correct errors real time reducing or eliminating project data quality issues.**



Using the AFCEE PE Program

- **AFCEE Program Manager, Prime Contractor PM and ERS approve analytical methods and matrices to be tested for each project!**
- **AFCEE ERS coordinates with Prime Contractor PM, and Field Samplers on the projects.**
- **Prime Contractor Project Manager provides project specific Sample Delivery Group (SDG) laboratory test results and associated Quality Control sample results to AFCEE ERS.**
- **AFCEE ERS evaluates the laboratory PE Sample results and generates a report for that AFCEE project.**



PE Program Summary

- **PE Samples can identify field sampling errors.**
- **PE Samples can identify specific QA/QC errors in laboratory analytical methods**
- **PE Samples can be used in conjunction with field samples to evaluate a laboratory Electronic Data System**
- **PE Sample results can be used for focused laboratory audits**